

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

October 17, 2006

OK

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS 10/24/06*

RE: 2006 Second Quarter Water Monitoring, PacifiCorp, Deer Creek Mine,
C/015/0018, Task ID #2649

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all of the MRP required sites?

Springs YES ☒ NO ☐

Rilda Meter 2 and 3 are the only springs scheduled for monitoring during the 2nd quarter.

Streams YES ☒ NO ☐

Wells YES ☒ NO ☐

UPDES YES ☒ NO ☐

In-mine YES ☒ NO ☐

2. Were all required parameters reported for each site?

Springs YES ☐ NO ☒

Rilda Meter 2: a broken valve prevented collection of data.

Streams YES ☒ NO ☐

Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations: "n" is the number of values used to calculate the standard deviation in the Division's database. An asterisk (*) indicates this is not a parameter required by the MRP.

In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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Main North- total hardness (n = 515).
Main East

Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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Rilda Meter 3 May: flow (n = 80)

Rilda Meter 3 June: flow (n = 80).

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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At all but one site (HCC01), flow reported for the month of May was outside two standard deviations from the average value.

DCR-04 June: bicarbonate as CaCO₃ (n = 7),

DCR-06 June: bicarbonate as CaCO₃ (n = 7),

RCLF2 June: water temperature (n = 8),

RCW4 June: total alkalinity (n = 54),

MFA June: field specific conductivity (n = 7), lab specific conductivity* (n = 7).

UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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UPDES 23604-001 April: TSS (n = 193).

Wells

YES ☒ NO ☐

CCW-1A May and June: depth (n = 95),

CCCW-3A May and June: depth (n = 91),

CCW-3S-U June: depth (n = 91).

4. On what date does the MRP require a five-year resampling of baseline water data.

Renewal submittal due 10/07/05, renewal due 02/07/06. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2006.

Baseline parameters were measured at some sites during the 1st and 2nd Qtr 2006. No springs other than NEWUSSD's two Rilda meters were scheduled to be monitored during the 1st and 2nd Qtr 2006. Baseline parameters are not determined for UPDES sites.

5. Based on your review, what further actions, if any, do you recommend?

The valve at Rilda Meter 2 has been inoperable and prevented scheduled monitoring. NEWUSSD owns this meter and the Permittee cannot repair or replace it without NEWUSSD's cooperation. If NEWUSSD does not replace or repair the valve, the Permittee needs to revise the water-monitoring plan to eliminate this point.

At all sites where there is flow during 2006, at least one set of water samples, preferably collected at low flow, should be analyzed for 5 -year baseline parameters.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?

YES ☐ NO ☒

7. Follow-up from last quarter (1st Qtr 2006), if necessary.

YES ☐ NO ☒

8. Did the Mine Operator respond adequately to queries about missing or irregular data?
YES ☒ NO ☐

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